

# Rainfall-Runoff Modelling in Gauged and Ungauged Catchments

Thorsten Wagener  
Howard S. Wheater  
Hoshin V. Gupta

OFISIKA

Imperial College Press

# Rainfallrunoff Modelling In Gauged And Ungauged Catchments

**Guoping Zhang**



## **Rainfallrunoff Modelling In Gauged And Ungauged Catchments:**

*Rainfall-runoff Modelling in Gauged and Ungauged Catchments* Thorsten Wagener,Howard Wheeler,Hoshin Vijai Gupta,2004 This important monograph is based on the results of a study on the identification of conceptual lumped rainfall runoff models for gauged and ungauged catchments The task of model identification remains difficult despite decades of research A detailed problem analysis and an extensive review form the basis for the development of a Matlab modelling toolkit consisting of two components a Rainfall Runoff Modelling Toolbox RRMT and a Monte Carlo Analysis Toolbox MCAT These are subsequently applied to study the tasks of model identification and evaluation A novel dynamic identifiability approach has been developed for the gauged catchment case The theory underlying the application of rainfall runoff models for predictions in ungauged catchments is studied problems are highlighted and promising ways to move forward are investigated Modelling frameworks for both gauged and ungauged cases are developed This book presents the first extensive treatment of rainfall runoff model identification in gauged and ungauged catchments *Rainfall-runoff Modelling in Gauged and Ungauged Catchments* Thorsten Wagener,Howard S. Wheeler,Hoshin V. Gupta,2004 Identification of Parsimonious Rainfall-runoff Models for Gauged and Ungauged Catchments Thorsten Wagener,University of London,2002

**Rainfall-Runoff Modelling** Keith J. Beven,2012-01-30 Rainfall Runoff Modelling The Primer Second Edition is the follow up of this popular and authoritative text first published in 2001 The book provides both a primer for the novice and detailed descriptions of techniques for more advanced practitioners covering rainfall runoff models and their practical applications This new edition extends these aims to include additional chapters dealing with prediction in ungauged basins predicting residence time distributions predicting the impacts of change and the next generation of hydrological models Giving a comprehensive summary of available techniques based on established practices and recent research the book offers a thorough and accessible overview of the area Rainfall Runoff Modelling The Primer Second Edition focuses on predicting hydrographs using models based on data and on representations of hydrological process Dealing with the history of the development of rainfall runoff models uncertainty in mode predictions good and bad practice and ending with a look at how to predict future catchment hydrological responses this book provides an essential underpinning of rainfall runoff modelling topics Fully revised and updated version of this highly popular text Suitable for both novices in the area and for more advanced users and developers Written by a leading expert in the field Guide to internet sources for rainfall runoff modelling software

**Hydrological Modelling in Arid and Semi-Arid Areas** Howard Wheeler,Soroosh Sorooshian,K. D. Sharma,2007-11-22 Arid and semi arid regions are defined as areas where water is at its most scarce The hydrological regime in these areas is extreme and highly variable and they face great pressures to deliver and manage freshwater resources However there is no guidance on the decision support tools that are needed to underpin flood and water resource management in arid areas UNESCO initiated the Global network for Water and Development Information for arid lands

GWADI and arranged a workshop of the world's leading experts to discuss these issues. This book presents chapters from contributors to the workshop and includes case studies from the world's major arid regions to demonstrate model applications and web links to tutorials and state-of-the-art modelling software. This volume is a valuable reference for researchers and engineers working on the water resources of arid and semi-arid regions.

**Modelling Hydrological Response at the Catchment Scale** Guoping Zhang, 2007 *Understanding Hydrological Variability for Improved Water Management in the Semi-Arid Karkheh Basin, Iran* Ilyas Masih, 2011-09-28 This study provides a hydrology-based assessment of surface water resources and its continuum of variability and change at different spatio-temporal scales in the semi-arid Karkheh Basin, Iran, where water is scarce, competition among users is high, and massive water resources development is under way. The study reveals that the ongoing allocation planning is not sustainable and essentially requires reformulation with consideration of spatio-temporal variability and observed trends in the streamflows regarding flood intensification and decline in low flows. The development of innovative methods for quantification of the hydrological fluxes, i.e. regionalization of model parameters based on similarity of the flow duration curve and the use of areal precipitation input in the hydrological modeling, helped better understanding and modeling the basin hydrology. The investigation of scenarios for upgrading rain-fed areas to irrigated agriculture using SWAT recommends the promotion of in situ soil and water conservation techniques. Conversion of rain-fed areas to irrigation causes significant reduction in the downstream flows and requires additional considerations such as less development in the upper catchments, practicing supplementary irrigation, and developing water storage. The knowledge generated is instructive for hydrological assessment and its use in water resources planning and management in the river basin context.

**Groundwater Resources Development and Planning in the Semi-Arid Region** Chaitanya B. Pande, Kanak N. Moharir, 2021-05-27 This book addresses the various challenges in achieving sustainable groundwater development, management, and planning in semi-arid regions with a focus on India and discusses advanced remote sensing and GIS techniques for the estimation and management of groundwater resources. The book is timely as there is a need for a better understanding of the various tools and methods required to efficiently and sustainably meet the growing demand for clean surface and groundwater in developing countries and how these tools can be combined with other strategies in a multi-disciplinary fashion to achieve this goal in water-scarce regions. To wit, the book combines remote sensing and GIS techniques, runoff modeling, aquifer mapping, land use and land cover analyses, evapotranspiration estimation, crop coefficients, and water policy approaches. This will be of use to academics, policymakers, social scientists, and professionals involved in the various aspects of sustainable groundwater development, planning, and management.

**Hydrology in Practice** Elizabeth M. Shaw, Keith J. Beven, Nick A. Chappell, Rob Lamb, 2017-12-21 *Hydrology in Practice* is an excellent and very successful introductory text for engineering hydrology students who go on to be practitioners in consultancies, the Environment Agency, and elsewhere. This fourth edition of *Hydrology in Practice* while retaining all that is

excellent about its predecessor by Elizabeth M Shaw replaces the material on the Flood Studies Report with an equivalent section on the methods of the Flood Estimation Handbook and its revisions Other completely revised sections on instrumentation and modelling reflect the many changes that have occurred over recent years The updated text has taken advantage of the extensive practical experience of the staff of JBA Consulting who use the methods described on a day to day basis Topical case studies further enhance the text and the way in which students at undergraduate and MSc level can relate to it The fourth edition will also have a wider appeal outside the UK by including new material on hydrological processes which also relate to courses in geography and environmental science departments In this respect the book draws on the expertise of Keith J Beven and Nick A Chappell who have extensive experience of field hydrological studies in a variety of different environments and have taught undergraduate hydrology courses for many years Second and final year undergraduate and MSc students of hydrology in engineering environmental science and geography departments across the globe as well as professionals in environmental protection agencies and consultancies will find this book invaluable It is likely to be the course text for every undergraduate MSc hydrology course in the UK and in many cases overseas too Hillslope and Watershed Hydrology Christopher J. Duffy,Xuan Yu,2018-09-14 This book is a printed edition of the Special Issue Hillslope and Watershed Hydrology that was published in Water *Surface Models for Geosciences* Kateřina Růžičková,Tomáš Inspektor,2015-05-27 The aim of the conference is to present and discuss new methods issues and challenges encountered in all parts of the complex process of gradual development and application of digital surface models This process covers data capture data generation storage model creation validation manipulation utilization and visualization Each stage requires suitable methods and involves issues that may substantially decrease the value of the model Furthermore the conference provides a platform to discuss the requirements features and research approaches for 3D modeling continuous field modeling and other geoscience applications The conference covers the following topics LIDAR for elevation data Radar interferometry for elevation data Surface model creation Surface model statistics Surface model storage including data formats standardization database Feature extraction Analysis of surface models Surface models for hydrology meteorology climatology Surface models for signal spreading Surface models for geology structural mining Surface models for environmental science Surface models for visibility studies Surface models for urban geography Surface models for human geography Uncertainty of surface models and digital terrain analysis Surface model visual enhancement and rendering **National-Scale Dynamic Water Resources Assessment Model in China** Huan Liu,Yangwen Jia,Jianhua Wang,Junkai Du,Cunwen Niu,Peng Hu,Jiajia Liu,2025-09-11 This detailed book introduces China s national dynamic water resources assessment model presenting its construction application scenarios and modern modeling approach to replace traditional statistics based methods The book thoroughly explores the applications of distributed hydrological modeling techniques in national water resources assessment It presents the successful development of the China Water Assessment

Model CWAM which is based on the WEP L hydrological model CWAM demonstrates broad potential in supporting national water information acquisition uniquely covering both surveyed and un surveyed regions The work highlights the model s ability to account for China s diverse climatic and geological characteristics while improving the efficiency of water resources assessment and providing solutions to dynamic assessment challenges especially under climate change and human impacts This work will serve as an essential reference for scholars and students in hydrology and water resources as well as policy makers and engineers involved in water resources management and assessment **Advances in Karst Research** M.

Parise,F. Gabrovsek,G. Kaufmann,N. Ravbar,2018-06-18 This volume covers major advances in the study of the geomorphology hydrology engineering geology and management of these specialized and fragile environments The book will be valuable for geologists engineers and geophysicists interested in karst along with land planners developers and managers of show caves natural parks and reserves in karst areas Remote Sensing of Northwest Himalayan Ecosystems R. R.

Navalgund,A. Senthil Kumar,Subrata Nandy,2018-10-18 Himalaya one of the global biodiversity hotspots is the abode of a variety of flora and fauna The Himalayan ecosystems have immense ecological socioeconomic and aesthetic significance as they provide a wide range of ecosystem services The northwest Himalaya NWH covering three states of India viz Uttarakhand Himachal Pradesh and Jammu and Kashmir starts from the foothills of Shivaliks in the south and extends to the greater Himalaya in the north This region is also the source of some of the major rivers of India With the increase in population the NWH ecosystems have been under threat due to deforestation loss of biodiversity expansion of agriculture and settlement overexploitation of natural resources habitat loss and fragmentation poaching mining construction of roads and large dams and unplanned tourism The Himalaya being young and geotectonically active remains inherently unstable fragile and prone to natural disasters Climate change is also likely to impact the Himalayan cryosphere drastically Recognizing the importance of the Himalaya a National Mission for Sustaining the Himalayan Ecosystem one of the eight missions under the National Action Plan on Climate Change NAPCC of Govt of India to conserve biodiversity forest cover and other ecological values in the Himalayan region has been taken up Spaceborne remote sensing with its ability to provide synoptic and repetitive coverage has emerged as a powerful tool for assessment and monitoring of the Himalayan resources and phenomena Indian Institute of Remote Sensing Dehradun has taken up a number of studies in the fields of geology water resources forestry agriculture urban settlement etc over the last decade The book summarises the work carried out in different disciplines illustrated with tables and figures and a host of relevant references It is hoped that the book serves as an excellent reference of immense value to the students researchers professors scientists professionals and decision makers working in the NWH region Issues in Biochemistry and Geochemistry: 2012 Edition ,2013-01-10 Issues in Biochemistry and Geochemistry 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Inorganic Biochemistry The editors have built Issues in Biochemistry and Geochemistry 2012 Edition on

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Modern Water Resources Engineering Lawrence K. Wang, Chih Ted Yang, 2014-01-11 The Handbook of Environmental Engineering series is an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms gas solid and liquid This exciting new addition to the series Volume 15 Modern Water Resources Engineering has been designed to serve as a water resources engineering reference book as well as a supplemental textbook We hope and expect it will prove of equal high value to advanced undergraduate and graduate students to designers of water resources systems and to scientists and researchers A critical volume in the Handbook of Environmental Engineering series chapters employ methods of practical design and calculation illustrated by numerical examples include pertinent cost data whenever possible and explore in great detail the fundamental principles of the field Volume 15 Modern Water Resources Engineering provides information on some of the most innovative and ground breaking advances in the field today from a panel of esteemed experts Treatise on Water Science ,2010-09-01 Water quality and management are of great significance globally as the demand for clean potable water far exceeds the availability Water science research brings together the natural and applied sciences engineering chemistry law and policy and economics and the Treatise on Water Science seeks to unite these areas through contributions from a global team of author experts The 4 volume set examines topics in depth with an emphasis on innovative research and technologies for those working in applied areas Published in partnership with and endorsed by the International Water Association IWA demonstrating the authority of the content Editor in Chief Peter Wilderer a Stockholm Water Prize recipient has assembled a world class team of volume editors and contributing authors Topics related to water resource management water quality and supply and handling of wastewater are treated in depth

**Encyclopedia of Hydrological Sciences** M. G. Anderson, 2005 Irrigation design manual Food and Agriculture Organization of the United Nations, 2023-03-27 Introduction about what this manual is covering concentrating on Large Scale Irrigation LSI diversion barrage or weir intake with auxiliary structures and most common conveyance structures suitable for LSI A very brief overview of an approach to match water needs with water availability demand vs supply with references and links to Food and Agriculture Organization FAO literature that is covering the topic in detail A brief reference to the most common methods to obtain necessary hydrological parameters for IRR scheme design A very brief overview of the importance of knowledge of geological conditions and the investigation needed to obtain geotechnical design parameters

including the most common geotechnical tests to obtain design parameters Planning phase considerations regarding diversion and intake structure discussing the role of the main components More technical discussion on each component of the weir or intake including formula and worked examples hydraulic and structural computations Conceptual hydraulic and structural considerations of main conveyance components with emphasis and more detail on most used components such as canals siphons aqueducts retaining walls etc A very brief overview of the approach to irrigation water management and Operations Maintenance O M with references and links to FAO literature that is covering the topic in detail Standard specification for irrigation construction material

Flood Risk Science and Management Gareth Pender, Hazel Faulkner, 2010-12-01 Approaches to avoid loss of life and limit disruption and damage from flooding have changed significantly in recent years Worldwide there has been a move from a strategy of flood defence to one of flood risk management Flood risk management includes flood prevention using hard defences where appropriate but also requires that society learns to live with floods and that stakeholders living in flood prone areas develop coping strategies to increase their resilience to flood impacts when these occur This change in approach represents a paradigm shift which stems from the realisation that continuing to strengthen and extend conventional flood defences is unsustainable economically environmentally and in terms of social equity Flood risk management recognises that a sustainable approach must rest on integrated measures that reduce not only the probability of flooding but also the consequences This is essential as increases in the probability of inundation are inevitable in many areas of the world due to climate change while socio economic development will lead to spiralling increases in the consequences of flooding unless land use in floodplains is carefully planned Flood Risk Science and Management provides an extensive and comprehensive synthesis of current research in flood management providing a multi disciplinary reference text covering a wide range of flood management topics Its targeted readership is the international research community from research students through to senior staff and flood management professionals such as engineers planners government officials and those with flood management responsibility in the public sector By using the concept of case study chapters international coverage is given to the topic ensuring a world wide relevance



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